ROCKY MOUNTAIN FOREST & RANGE EXPERIMENT STATION
ARIZONA STATE COLLEGE
TEMPE, ARIZONA

SD426
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US FOREST SERVICE

Sierra Ancha

UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

NATIONAL FOREST FACTS
SOUTHWESTERN REGION
ARIZONA AND NEW MEXICO
1945

M—5123

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Rocky Mountain Forest and Range Experiment Station
Forest Hydrology Laboratory
Tempe, Arizona

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ORIGIN OF SOUTHWESTERN NATIONAL FORESTS

Dates of Proclamations and Executive Orders Establishing Them	ARIZONA	NAME OF NATIONAL FOREST
	Apache	
August 17, 1898		Black Mesa Forest Reserve.
July 1, 1908		Part of the Black Mesa Forest Reserve became the Apache National Forest
(The above covers only the portion of the Apache National Forest in Arizona)		
	Coconino	
August 17, 1898		San Francisco Mountains Forest Reserve
July 2, 1908		All of the San Francisco Mountains Forest Reserve and parts of the Black Mesa, Tonto and Grand Canyon were consolidated under the name of the Coconino National Forest
	Coronado	
November 5, 1906		Baboquivari Forest Reserve
November 6, 1906		Huachuca Forest Reserve
November 7, 1906		Tumacacori Forest Reserve
July 2, 1908		Baboquivari, Huachuca and Tumacacori Forest Reserves consolidated under the name of the Garces National Forest
April 11, 1902		Santa Rita Forest Reserve
July 2, 1902		Santa Catalina Forest Reserve
May 25, 1907		Dragoon National Forest
July 2, 1908		Santa Rita, Santa Catalina and Dragoon National Forests consolidated under the name of the Coronado National Forest
April 17, 1911		Garces and Coronado National Forests consolidated under the name of the Coronado National Forest
July 30, 1902		Chiricahua Forest Reserve
November 5, 1906		Peloncillo Forest Reserve
July 2, 1908		Chiricahua and Peloncillo Forest Reserves consolidated under the name of the Chiricahua National Forest. (Portion of the Peloncillo in New Mexico.)

Dates of Proclamations and Executive Orders Establishing Them	NAME OF NATIONAL FOREST
	Coronado (Continued)
June 6, 1917	Chiricahua and Coronado National Forest consolidated under the name of the Coronado National Forest.
(The above covers the entire Forest situated in Arizona and New Mexico)	
	Crook
July 22, 1902	Mt. Graham Forest Reserve
March 20, 1905	Pinal Mountains Forest Reserve
October 3, 1905	Tonto Forest Reserve
January 13, 1908	Pinal Mountains Forest Reserve became part of the Tonto National Forest.
July 1, 1908	Parts of the Mt. Graham and Tonto National Forests, including the Pinal Mountains area, consolidated under the name of the Crook National Forest
January 23, 1925	518,431 acres transferred from Apache National Forest to Crook National Forest.
	Kaibab
February 20, 1893	Grand Canyon Forest Reserve
July 2, 1908	All of the San Francisco Mountains and parts of the Black Mesa, Tonto and Grand Canyon National Forests consolidated under the name of the Coconino National Forest.
June 28, 1910	Part of the Coconino National Forest together with certain other land not heretofore reserved became the Tusayan National Forest.
May 22, 1908	Dixie National Forest (Arizona)
July 2, 1908	Kaibab National Forest
March 18, 1924	Dixie consolidated with the Kaibab
August 4, 1934	The Tusayan and Kaibab National Forests consolidated.

Dates of Proclamation And Executive Orders Establishing Them	NAME OF NATIONAL FOREST
	Prescott
May 10, 1898	Prescott Forest Reserve
December 30, 1907	Verde National Forest
July 2, 1908	Prescott and Verde National Forests consolidated under the name of the Prescott National Forest
October 22, 1934	249,201 acres transferred from Tusayan to Prescott National Forest
	Sitgreaves
July 1, 1908	Parts of the Black Mesa and Tonto National Forests consolidated under the name of the Sitgreaves National Forest.
	Tonto
October 3, 1905	Tonto Forest Reserve
October 22, 1934	Bloody Basin transferred from Prescott to Tonto National Forest 151,285 acres
	NEW MEXICO
	Apache
January 23, 1925	A portion of the Datil National Forest was transferred to the Apache National Forest. This portion was originally part of the Magdalena and Gila River Forest Reserves.
	Carson
November 7, 1906	Taos Forest Reserve
July 1, 1908	Carson National Forest created by consolidation of the Taos National Forest and part of the Jemez National Forest.
June 16, 1923	63,708 acres in Taos County transferred from Santa Fe National Forest to Carson National Forest
	Cibola
October 5, 1906	Mt. Taylor Forest Reserve
November 5, 1906	San Mateo Forest Reserve Magdalena Forest Reserve
November 6, 1906	Manzano Forest Reserve
April 16, 1908	Mt. Taylor National Forest consolidated with the Manzano National Forest

Dates of Proclamations And Executive Orders Establishing Them	NAME OF NATIONAL FOREST
	Cibola (Continued)
June 18, 1908	Creating the Datil National Forest
July 2, 1908	San Mateo National Forest added to the Magdalena National Forest
February 23, 1909	Magdalena and Datil National Forests consolidated
March 2, 1909	Zuni National Forest
September 10, 1914	Zuni National Forest consolidated with the Manzano National Forest
December 3, 1931	Name of the Manzano changed to Cibola National Forest and a portion of the Datil transferred to the Cibola
	Gila
March 2, 1899	Gila River Forest Reserve
February 6, 1907	Big Burros Forest Reserve
June 18, 1908	Consolidating the Big Burros with the Gila National Forest
December 24, 1931	A portion of the Datil was transferred to the Gila National Forest
	Lincoln
July 26, 1902	Lincoln Forest Reserve
November 5, 1906	Gallinas Forest Reserve
April 19, 1907	Guadalupe National Forest
April 24, 1907	Sacramento National Forest
July 2, 1908	Guadalupe and Sacramento National Forests consolidated as the Alamo National Forest. The Gallinas and Lincoln National Forests consolidated as the Lincoln National Forest
June 6, 1917 (effective July 1)	The Alamo National Forest transferred to the Lincoln National Forest.

Date of Proclamations And Executive Orders Establishing Them	NAME OF NATIONAL FOREST
	Santa Fe
January 11, 1892	Pecos River Forest Reserve
October 12, 1905	Jemez Forest Reserve
July 1, 1908	Pecos River National Forest changed to Pecos National Forest
July 1, 1915	Jemez and Pecos National Forests consolidated as the Santa Fe National Forest
October 3, 1905	Portales Forest Reserve
March, 1907	The Portales National Forest restored to the public domain

Note: The foregoing covers only changes of name and major transfers. There have been many additions, eliminations and changes in boundaries not listed.

NATIONAL FOREST IMPROVEMENTS (GOVERNMENT OWNED) ON JUNE 30, 1944

(Includes Southwestern Forest & Range Exp. Station)

ARIZONA

	Fire Control and Administration	Number	Miles	Construction Cost
1.	Fire Control Improvements			$ 120,712.31
2.	Lookout Houses, Towers & Observatories	69		
3.	Fire Control Water Facilities	1		
4.	Firebreaks		13.0	
	Administration Improvements			
5.	Communication Systems			428,958.41
6.	Telephone Lines		2,139.6	
7.	Dwellings and Related Improvements			712,767.89
8.	Dwellings	234		
9.	Other Structures	310		
10.	Water & Sanitary Systems	123		
11.	Warehouses, Shops and Offices			438,569.91
12.	Offices	52		
13.	Shops	9		
14.	Warehouses	210		
	Total	1,008	2,152.6	1,701,008.52
	Public Service			
15.	Recreation Use Improvements			1,012,639.85
16.	Campgrounds and Picnic Areas	157		
17.	Swimming Areas	3		
18.	Winter Sports Areas	7		
	Total	167		1,012,639.85
	Wildlife and Range Use Improvements			
19.	Range Use Improvements			3,117,679.57
20.	Range Fences and Corrals		6,822.0	
21.	Stock Driveways		176.3	
22.	Range Water Developments	2,221		
23.	Artificial Reseeding (Acres)	2,310		
24.	Wildlife Use Improvements			163,176.16
25.	Game Refuge Fences		7.8	
26.	Fish Rearing Ponds	15		
27.	Stream and Lake Improvements	39		
	Total	4,585	7,006.1	3,280,855.73
28.	Soil and Water Control Improvements			336,227.28
29.	ROADS		5,210.8	9,415,325.90
30.	TRAILS		3,461.2	539,179.72
	Total		8,672.0	10,290,732.90
	GRAND TOTAL	5,760	17,830.7	16,285,237.00

RANGER DISTRICTS IN REGION 3

ARIZONA		NEW MEXICO	
Apache National Forest	2	Apache National Forest	3
Coconino " "	6	Carson " "	6
Coronado " "	5	Cibola " "	6
Crook " "	6	Coronado " "	1
Kaibab " "	4	Gila " "	7
Prescott " "	6	Lincoln " "	6
Sitgreaves " "	4	Santa Fe " "	6
Tonto " "	8		
	41		35

TOTAL FOR REGION - 76

Region 3 1945

NATIONAL FOREST IMPROVEMENTS (GOVERNMENT OWNED) ON JUNE 30, 1944

(Includes Southwestern Forest & Range Exp. Station)

	NEW MEXICO			TOTAL R-3		
	Number	Miles	Construction Cost	Number	Miles	Construction Cost
1.			76,473.58			197,185.89
2.	51			120		
3.				1		
4.		8.0			21.0	
5.			655,607.70			1,084,566.11
6.		2,420.3			4,559.9	
7.			476,115.24			1,188,883.13
8.	159			393		
9.	241			551		
10.	81			204		
11.			280,451.85			719,021.76
12.	39			91		
13.	7			16		
14.	134			344		
	712	2,428.3	1,488,648.37	1,720	4,580.9	3,189,656.89
15.			569,968.69			1,582,608.54
16.	112			269		
17.				3		
18.	11			18		
	123		569,968.69	290		1,582,608.54
19.			2,297,694.92			5,415,374.49
20.		5,519.5			12,341.5	
21.		44.0			220.3	
22.	890			3,111		
23.	306			2,616		
24.			82,690.59			245,866.75
25.		2.5			10.3	
26				15		
27.	58			97		
	1,254	5,566.0	2,380,385.51	5,839	12,572.1	5,661,241.24
28.			439,167.60			775,394.88
29.		2,875.8	6,931,116.16		8,086.6	16,346,442.06
30.		3,384.5	289,627.81		6,845.7	828,807.53
		6,260.3	7,659,911.57		14,932.3	17,950,644.47
	2,089	14,254.6	12,098,914.14	7,849	32,085.3	28,384,151.14

Calendar Year

Forest and State	A Less Than ¼ A.	B ¼ A. & Less Than 10 A.	C 10 A. & Less Than 100 A.	D 100 A. & Less Than 300 A.	E Over 300 A.	Total	Class C-D-E Obj.	M. C. Fires	M. C. Obj.
ARIZONA									
Apache	80	21	2			103	2	9	10
Coconino	356	87	5			448	4	72	55
Coronado	27	15	5			47	4	5	14
Crook	26	13	3		1	43	3	4	7
Kaibab	85	24	1			110	4	30	39
Prescott	25	11	2			38	4	8	24
Sitgreaves	93	42	5	1		141	4	21	20
Tonto	68	19	3			90	4	8	8
Total ARIZONA	760	232	26	1	1	1020	29	157	177
NEW MEXICO									
Apache	47	32	3	1		83	2	8	10
Carson	12	11	1			24	2	9	14
Cibola	19	19	5			43	4	11	20
Gila	101	47	12	2	4	166	5	8	14
Lincoln	42	17	3	1		63	3	13	18
Santa Fe	36	19	2			57	4	10	17
Total NEW MEXICO	257	145	26	4	4	436	20	59	93
Total REGION 3	1017	377	52	5	5	1456	49	216	270

ACREAGE BURNED 1944

Forest and State	Gross Inside Boundaries	Area Burned Objective
ARIZONA		
Apache	130	160
Coconino	295	600
Coronado	112	1040
Crook	123	350
Kaibab	60	375
Prescott	85	400
Sitgreaves	429	300
Tonto	128	300
Total - ARIZONA	1362	3525
NEW MEXICO		
Apache	314	125
Carson	72	150
Cibola	94	300
Gila	7637	700
Lincoln	354	500
Santa Fe	77	200
Total - NEW MEXICO	8548	1975
TOTAL - REGION 3	9910	5500

MAJOR ACCOMPLISHMENTS WITH EMERGENCY ORGANIZATIONS

(Not Including CCC)

April 1, 1933 to December 31, 1941

Activity	Unit	ARIZONA Const.	ARIZONA Maint.	NEW MEXICO Const.	NEW MEXICO Maint.	R-3 TOTAL Const.	R-3 TOTAL Maint.
Truck trails and minor roads	Miles	571	1883	567	4199	1138	6082
Bridges	No.	31	5	41	83	72	88
Horse Trails	Miles	469	479	252	4051	721	4530
Telephone Lines	Miles	162	885	460	3649	622	4534
Fish Stream Improvement	Miles	132	-	202	20	334	20
Range and Other Fences	Miles	1552	446	1581	3188	3133	3634
Water Development	No.	546	45	185	114	731	159
Pipe Lines	Miles	36	8	5	1	41	9
Corrals	No.	11	1	24	8	35	9
Range Surveys	Acres	1498835	-	896999	-	2395834	-
Range Revegetation	Acres	1593	-	519	-	2112	-
Eradication Poisonous Plants	Acres	480	-	931	-	1411	-
Estimating Timber Resources	Acres	500206	-	38500	-	538706	-
Stock Driveways	Miles	16	23	11	98	27	121
Rodent Control	Acres	22986	19680	379889	10432	402875	30112
Timber Stand Imp.	Acres	19787	-	9415	-	29202	-
Tree Disease Control	Acres	12760	7115	6753	836	19513	7951
Tree Insect Control	Acres	13224	6000	2915	-	16139	6000
Dams, Erosion Control	No.	103	5	45	8	148	13
Dams, Imp'd'g., Large Diversion	No.	3	10	5	4	8	14
Recreation Campgrounds	Acres	141	2631	126	666	267	3297
Recreation Structures	No.	175	60	324	725	499	785

MAJOR ACCOMPLISHMENTS WITH EMERGENCY ORGANIZATIONS
(Continued)

Activity	Unit	ARIZONA		NEW MEXICO		R-3 TOTAL	
		Const.	Maint.	Const.	Maint.	Const.	Maint.
Fire Breaks	Miles	28	12	4	-	32	12
Admin. Bldgs.	No.	69	74	69	321	138	395
Other Struct. Imps. (Misc.)	No.	103	15	435	162	538	177
Lookout Houses & Towers	No.	11	9	21	11	32	20
Fire Suppression	M-Days	761	-	1039	-	1800	-
Cattle Guards	No.	86	14	75	30	161	44
Signs, Markers and Monuments	No.	242	35	1016	105	1258	140
Erosion Control	Acres	7393	60	7952	-	15345	60
Fire Prevention and Presuppression	M-Days	389	13	729	130	1118	143
Maps and Models	M-Days	111	-	18954	-	19065	-
Marking Boundaries	Miles	56	40	1096	94	1152	134
Surveys, Topographic	Acres	9780	-	86710	-	96490	-

ACCOMPLISHMENTS WITH CCC ORGANIZATIONS

4/1/33 - 12/31/41

Activity	Unit	ARIZONA Const.	ARIZONA Maint.	NEW MEXICO Const.	NEW MEXICO Maint.	R-3 TOTAL Const.	R-3 TOTAL Maint.
Truck trails and Minor Roads	Miles	1,848	8,616	1,781	14,248	3,629	22,864
Bridges, vehicle	No.	210	87	216	46	426	133
Horse Trails	Miles	537	438	273	472	810	910
Telephone Line	Miles	1,208	2,982	2,433	4,527	3,641	7,509
Ponds, fish and birds	No.	373	195	60	6	433	201
Fish Stream Improvement	Miles	183	24	223	58	406	82
Range and Other Fences	Miles	2,508	782	2,214	1,005	4,722	1,787
Water Developments	No.	899	143	482	222	1,381	365
Pipe Lines	Miles	7,695	2,597	7,900	7	15,595	2,604
Corrals	No.	62	2	47	3	114	5
Range Revegetation	Acres	3,814	-	8,174	-	11,988	-
Eradication Poisonous Plants	Acres	5,138	-	15,972	1	21,110	1
Estimating Timber Resources	Acres	8,325	-	57	-	8,382	-
Stock Driveways Posting And Improvement	Miles	32	-	4	-	36	-
Rodent Control	Acres	1,147,441	-	425,211	-	1,572,652	-
Timber Stand Improvement	Acres	45,939	-	33,984	-	79,923	-
Tree Disease Control	Acres	64,336	37,084	27,126	4,675	91,462	41,759
Tree Insect Control	Acres	21,205	-	10,967	-	32,172	-
Dams, Erosion Control	No.	64,807	22,860	72,226	2,600	137,033	25,460
Recreation Campgrounds	Acres	1,106	693	560	718	1,666	1,411
Recreation Structures	No.	4,379	877	2,665	776	7,044	1,653
Fire Breaks	Miles	28	55	8	3	36	58

ACCOMPLISHMENTS WITH CCC ORGANIZATIONS
(Continued)

Activity	Unit	ARIZONA		NEW MEXICO		R-3 TOTAL	
		Const.	Maint.	Const.	Maint.	Const.	Maint.
Admin. Bldgs., Barns and Dwellings	No.	135	213	68	121	203	334
Admin. Buildings, Small Garages & Other	No.	265	105	382	148	647	253
Lookout Houses and Towers	No.	39	13	32	27	71	40
Fire Suppression	M-Days	34,303	-	13,559	-	47,862	-

TOTAL CAMP MONTHS, 4/1/33-12/31/41

Arizona	1308
New Mexico	1046
Total R-3	2354

TIMBER MANAGEMENT

TIMBER DATA

Acreage and percent of commercial sawtimber lands

ARIZONA

Ownership of Commercial Sawtimber Areas

	Commercial*	Percent
National Forests	2,330,000	64.6
Indian Reservations	1,215,000	33.7
Other Federal		
State	28,000	.8
	3,573,000	99.1
Private	34,000	.9
Total	3,607,000	100.0

NEW MEXICO

National Forests	2,421,000	60.3
Indian Reservations	428,000	10.7
Other Federal	10,000	.2
State	119,000	2.9
	2,978,000	74.1
Private	1,040,000	25.9
Total	4,018,000	100.0

VOLUME OF TIMBER IN COMMERCIAL FORESTS*

ARIZONA

Ft. B.M.

National Forests	13,842,000,000	71.0
Indian Reservations	5,500,000,000	28.2
Other Federal State	82,000,000	.4
	19,424,000,000	99.6
Private	68,000,000	.4
Total	19,492,000,000	100.0

NEW MEXICO

National Forests	9,596,000,000	69.4
Indian Reservations	608,000,000	4.4
Other Federal	25,000,000	.2
State	526,000,000	3.9
	10,755,000,000	77.9
Private	3,068,000,000	22.1
Total	13,823,000,000	100.0

*Data from Joint Congressional Report.

Estimate of Sawtimber in M ft. B.M. in Southwest - includes non-commodity and non-commercial*

	Arizona	New Mexico
National Forests	14,489,000	11,253,000
Indian Reservations	5,531,000	566,000
Other Federal Lands	545,000	20,000
State	110,000	521,000
Private	118,000	4,837,000
TOTAL	20,793,000	17,197,000

Cordwoods in Cords

National Forests	10,894,000	13,448,000
Other	19,000,000	20,000,000
TOTAL	29,894,000	33,448,000

The total area of woodland forest in Arizona is estimated at 14,855,000 Acres.
The total area of woodland forest in New Mexico is estimated at 13,864,000 Acres.

Area of sawtimber type - Arizona 4,774,000 acres or 6.8% of total
" " " " - New Mexico 6,097,000 acres or 7.7% of total
Woodland forests cover 18.9% of total area of the two states.

Area of sawtimber type in National Forests of Arizona - 3,072,000
" " " " " " " " New Mexico - 4,010,000

Total area cutover land, sawtimber type, in Arizona, to January 1, 1945
853,000 acres (Estimated)
Total area cutover land, sawtimber type, in New Mexico, to January 1, 1945
1,241,000 acres (Estimated)

National Forests of Region 3 are:
35% woodland
34% sawtimber
31% untimbered
About 73% of gross area of New Mexico Forests are publicly owned
About 98% of gross area of Arizona Forests are publicly owned.

TIMBER LAND DATA BY PER CENTS - BASED ON AREA
(Includes non-commodity and non-commercial areas)

Arizona		New Mexico	
National Forests	64.9%	National Forests	67.3%
Indian Reservations	30.7	Indian Reservations	5.8
Public Domain	0.4	Public Domain	0.3
National Park	2.3		
Total Federally Owned	98.3%	Total Federally Owned	73.4%
State	0.7	State	2.2
Total Federal & State	99.0%	Total Federal & State	75.6%
Private	1.0	Private	24.4
Grand total	100.0%	Grand Total	100.0%

*Latest data

M Ft. B. M. Fiscal Year 1944

Forest	Commercial Sales	Cost Sales	Exchange	Total Cut	Total Value	Amount Free Use (M ft.)
Apache	19,135	25	-	19,160	$ 43,488	274
Coconino	33,314	68	-	33,382	118,513	1,100
Coronado	785	40	-	825	1,806	603
Crook	282	46	-	328	654	219
Kaibab	2,002	12	-	2,014	6,466	279
Prescott	1,343	17	-	1,360	4,171	639
Sitgreaves	28,885	17	-	28,902	90,964	991
Tonto	5,151	66	-	5,217	17,901	865
ARIZONA	90,897	291	-	91,188	283,963	4,970
Apache	4,787	13	2,125	6,925	23,848	834
Carson	2,839	581	431	3,851	8,403	6,470
Cibola	7,073	136	253	7,462	22,004	1,622
Coronado	-	-	-	-	-	42
Gila	3,502	26	753	4,281	11,354	676
Lincoln	2,685	98	-	2,783	8,482	1,771
Santa Fe	19,638	298	3,624	23,560	82,429	2,150
NEW MEXICO	40,524	1,152	7,186	48,862	156,520	13,565
REGION 3	131,421	1,443	7,186	140,050	440,483	18,535

Cumulative Increment of Ponderosa Pine In Different Periods after Cutting
(Data collected and compiled by Southwestern Forest and Range Exp. Station)

Residual Volume Ft. b.m.	Years After Cutting: 5 Ft. B.M.	10 Ft. B.M.	15 Ft. B.M.	15 Percent	20 Ft.B.M.	25 Ft.B.M.	30 Ft. B.M.
200	50	145	200	7.3	320	420	520
600	100	250	390	4.3	520	670	800
1,000	165	325	495	3.3	680	870	1,030
2,000	260	515	805	2.7	1,090	1,340	1,610
3,000	350	700	1,125	2.5	1,550	1,825	2,230
4,000	460	900	1,410	2.4	1,910	2,430	2,900
5,000	540	1,050	1,640	2.2	2,240	2,800	3,350
6,000	620	1,220	1,850	2.0	2,550	3,250	3,875
7,000	670	1,350	2,070	2.0	2,800	3,550	4,250
8,000	735	1,480	2,250	1.9	3,050	3,950	4,650
9,000	775	1,550	2,400	1.8	3,200	4,050	4,700
10,000	800	1,650	2,500	1.7	3,250	4,000	4,800

(Note: Increment volumes in lower portion of table are subject to considerable error due to too few plots. Volumes beyond 20 years were obtained by extending curve.)

NUMBER OF TREE SPECIES

According to U. S. Department of Agriculture, Misc. Circular No. 92, "Check List of the Forest Trees of the United States" there are 131 species of trees in Region 3.

Of these 131 species four make up 98% of volume of the sawtimber stand. Ponderosa pine (Pinus ponderosa) making up 82% of the volume; Douglas fir (Pseudotsuga taxifolia) making up 10% of the volume; White fir (Abies concolor) making up 3% of the volume; Engelmann spruce (Picea engelmannii) making up 3% of the volume; and Mexican white pine (Pinus strobiformis), Corkbark fir (Abies Arizonica) limber pine (Pinus flexilis), etc., making up the remainder of the volume.

TOTAL CUT SAWTIMBER BY STATES
Data from Census (Calendar Year)
(All Ownerships)

Year	Number Mills Reporting: Arizona	Number Mills Reporting: New Mexico	Total Cut M.F.B.M.: Arizona	Total Cut M.F.B.M.: New Mexico	M. F. B. M. Total: Arizona and New Mexico
1928:	25	77	158,000	162,000	320,000
1929:	31	78	175,000	148,000	323,000
1930:	26	76	95,000	143,000	238,000
1931:	26	57	85,000	58,000	143,000
1932:	22	52	58,000	72,000	130,000
1933:	28	55	90,000	89,000	179,000
1934:	34	74	73,000	101,000	174,000
1935:	29	79	98,716	126,220	224,936
1936:	36	87	123,411	140,840	264,251
1937:	39	105	123,041	164,446	287,487
1938:	37	94	118,200	125,176	243,376
1939:	42	98	119,206	106,227	225,433
1940:	41	100	128,776	112,786	241,562
1941:	42	119	130,567	114,612	245,179
1942:	38	138	143,286	122,958	266,244
1943:	44	118	151,547	109,099	260,646

The sawtimber forests of Arizona and New Mexico have supplied sawtimber for the production of approximately nine billion board feet of sawn products during the period 1879 to 1944 inclusive.

TOTAL CUTS FROM NATIONAL FORESTS

All classes of products converted to M ft. All classes of Forest Sales.

Calendar Year

Year	Commercial Sales & Exchange: S-22: Ari-zona	S-22: New Mexico	Arizona	New Mex.	Total Ari-zona & New Mexico	Average Price per M ft.	Free Use: Arizona	New Mexico	Total
1928:	378:	695	93,117:	18,854	112,031	$2.51	6,590	7,643:	14,233
1929:	261:	595	143,575:	33,161	176,736	2.49	7,337	10,614:	17,951
1930:	269:	907	85,476:	36,194	121,670	2.33	8,670	15,818:	24,488
1931:	257:	953	80,862:	14,865	95,727	2.34	10,342	22,503:	32,845
1932:	371:	827	57,206:	10,714	67,920	2.31	12,876	27,962:	40,838
1933:	284:	813	75,998:	14,196	90,194	2.38	14,623*:	29,255:	43,878
1934:	508:	774	34,944:	12,826	47,770	2.35	14,568	23,485:	38,053
1935:	391:	841	78,648:	17,398	96,046	2.23	15,395	26,725:	42,120
1936:	484:	936	91,670:	34,912	126,582	2.34	13,593	22,253:	35,846
1937:	572:	1,144	91,902:	50,631	142,533	2.24	7,902	25,332:	33,234
1938:	519:	1,055	69,334:	36,763	106,097	2.19	8,117	25,452:	33,569
1939:	250:	846	65,166:	31,934	97,100	2.18	8,381	24,111:	32,492
1940:	274:	964	74,360:	40,120	114,480	2.30	8,976	28,674:	37,650
1941:	222:	847	79,079:	29,102	108,181	2.45	6,767	29,850:	36,617
1942:	238:	865	74,795:	44,325	119,120	2.48	6,575	20,588:	27,163
1943:	208:	1,202	77,426:	52,851	130,277	2.82	4,756	13,660:	18,416
1944:	282:	1,134	113,269:	40,544	153,813	3.40	4,970	13,565:	18,535

*Previous figures on "Free Use" are calendar year. Subsequent years are fiscal year.

Handled under cooperative agreement (State timber) 5,144 M (C.Y. 1944)
Handled under cooperative agreement (Private timber) 9,264 M (C.Y. 1944)

STATUS OF CUTTING IN NEW MEXICO - 1943

Total cut (estimated) 99,000 M feet log scale

		%
National Forest	42,075 M feet	42.5
Indian Reservations	24,156 "	24.4
State (handled by Forest Service)	5,643 "	5.7
State (handled by State)	3,960 "	4.0
Private (handled by Forest Service)	12,771 "	12.9
Private (handled by Co. under cooperative agreement)	0	0.0
Private (handled by S.C.S. under cooperative agreement)	0	0.0
Private (some restrictions) railroad lands, timber rights, etc.	99	0.1
Private (no restrictions except state law)	10,296	10.4
TOTAL	99,000	100.0

Total cut from private lands 23,166 "
Regulated cut - 12,870 M - 55.4%
Unregulated cut - 10,296 M - 44.6%

STATUS OF CUTTING IN ARIZONA - 1943

Total cut (estimated) 138,000 M feet log scale

		%
National Forests	78,032 M feet	56.6
Indian Reservations	57,860 "	42.0
State (handled by Forest Service)	0 "	0.0
Timber Rights (under T. R. agreement)	0 "	0.0
Private (handled by Forest Service)	276 "	.2
Private (no restrictions)	1,832 "	1.2
TOTAL	138,000	100.0

STATUS OF TIMBER CUT IN NEW MEXICO, 1942 AND 1943

	Percent of Total	
	1942	1943
National Forest	35.7	42.5
Indian Reservations	19.0	24.4
State of New Mexico (F.S. Coop.)	4.8	5.7
State (other)	7.4	4.0
Private (F.S. Coop.)	6.8	12.9
Private (handled by company under coop. agreement)	0.5	.0
Private (timber rights and railroad lands - minor restrictions)	9.2	0.1
Private (no restrictions except State law)	16.6	10.4
TOTAL	100.0	100.0
	118,000 M ft.	99,000 M ft.

1943 - Private land cut - 23,166 M ft.
Regulated cut - 12,870 M ft. 55.4%
Unregulated cut 10,296 M ft. 44.6%

COMPARATIVE PAINTABILITY OF DIFFERENT SPECIES OF WOODS

Group No.	Description of Group	Species
1	Woods on which paints of types A and B disintegrate slowly	Softwoods Cedars Southern cypress Redwood
2	Woods on which paints of type A disintegrate slowly but those of type B disintegrate somewhat more rapidly than they do on woods of group 1	Softwoods Northern white pine Sugar pine Western (Idaho) White pine
3	Woods on which paints of types A and B disintegrate more rapidly than they do on woods of group 1	Hardwoods Aspen Cottonwoods Yellow poplar Softwoods White fir Hemlock Lodgepole pine Ponderosa pine Engelmann spruce Sitka spruce
4	Woods on which paints of types A and B disintegrate more rapidly than they do on woods of Group 3	Hardwoods Beech Birch Maple Gums Softwoods Douglas fir Norway pine Southern yellow pine Western larch
5	Woods unsuitable for conventional house painting because wood filler is required to fill the pores properly.	All hardwoods with pores larger than those in birch, such as ash, chestnut, elm, hickory, oak, walnut

NOTE: Paints of type A are those that fail by checking and crumbling such as pure white lead paint; those of type B fail by cracking, curling, and flaking, such as paints containing zinc oxide mixed with other pigments.

COMPARATIVE DECAY RESISTANCE OF HEARTWOOD OF LOCAL AND FREQUENTLY-USED OUTSIDE SPECIES

(Applies only to heartwood, untreated. Sapwood of no species is durable under conditions favoring decay; i.e., in contact with soil, poorly-drained or aerated parts of buildings, bridges, etc.)

Durable Group

- Cedars
- Junipers
- Black Locust
- Osage Orange
- Redwood
- Southern cypress

Nearly as Durable Group

- White oaks
- Honey locust
- Dense Douglas fir
- Dense southern pine
- Dense larch

High Intermediate Group

- Cypress (Cupressus)
- Douglas fir (unselected)
- Southern pine (unselected)
- Larch (unselected)

Low Intermediate Group

- Red Oaks
- Pines (other than southern)
- Maple (hard and red)
- Ashes
- Hemlocks
- Spruces

Nondurable Group

- True firs (concolor, alpine, balsam, etc.)
- Aspen
- Cottonwood
- Willows

NOTE: When used under decay-inducing conditions the woods in the last three groups should be treated with an approved preservative and in so treating sapwood all around is preferable.

SOME WOOD UTILIZATION FACTS

All other things being equal, that is, grade for grade:

1. Sapwood of any species is as strong when used as a beam or post and as stiff as the heartwood of that species.

2. Red (heartwood) hickory tool handles are as strong as white (sapwood) handles.

3. Timber cut from dead trees (free from decay) is as strong as that cut from live trees.

4. The harder the wood the higher its nail-holding power but the more easily it splits. Conversely, the softer the wood the lower its nail-holding power but the less easily it splits. Hence, use slimmer and more nails in hardwoods and larger and less nails in softwoods.

5. Good air-seasoned wood and good kiln-dried wood of the same species at the same moisture content are of equal strength.

6. From the principal property standpoints the oaks are classed commercially in two groups - white and red. Thus the three important southwestern species of oak are of approximately equal value and behavior in use.

   Arizona white oak (Q. arizonica)
   Emory oak (Q. emoryi)
   Rocky mountain white oak (Q. utahensis)

7. Sapwood of no species is durable.

8. In untreated condition, with the same proportion of heartwood present, there is no difference in durability of round and split posts but splitting often changes the relative proportion by volume of sapwood and heartwood.

9. Generally the softer a wood the better it takes and holds paint.

10. In repainting buildings use the paint of the same manufacturer as was originally used since coats of paints of different formula usually are not compatible.

11. Uneven coatings on wood cause warping.

12. Of all the lumber called or sold under a commercial or trade name including the words, "white pine," that cut from only the following species is true white pine:

    Northern white pine (P. strobus)
    Western (Idaho) white pine (P. monticola)
    Sugar pine (P. lambertiana)
    Limber pine (P. flexilis)
    Whitebark pine (P. albicaulis)
    Mexican white pine (P. strobiformis)

All others belong to the hard or southern yellow pine group (i.e., longleaf, shortleaf, loblolly, slash, etc.); or to the intermediate, red, or nut group (i.e., Norway, lodgepole, jack, ponderosa, pinon, etc.).

FUEL VALUE OF WOOD

(Local species and typical others for comparison)

Approximate equivalents of one ton (2,000 pounds) of coal in terms of one cord of 128 cubic feet containing 80 cubic feet of solid wood.

One Cord of	One and one-half cords of	Two cords of
Oaks	Soft maple	Cedars
Locusts	Sycamore	Cypress (Cupressus)
Hard maple	Mesquite tops	Cottonwoods
Ashes	Douglas fir	Aspen
Hickory	Southern pines	Other pines
Mesquite roots	Hemlocks	
	Larch	

NOTE: Of all American species of wood, mesquite is one of the few in which the root-wood is of higher specific gravity than above-ground wood. It pays to use root-wood for fuel and the grubbing will improve many of our ranges.

Water Yield From Small Typical Mountain Watershed,
Open Forest Cover - Elevation 5,000 to 6,000
Applicable to Central Arizona
(Data from Parker Creek Branch Station)

Year	Season	Rain Inches	Run-off Cubic Feet	Cubic Feet Per Acre	Total rain before run-off began	Lag in days before run-off began	Percent run-off to rain-fall	Acre-feet per inch of rain
1934	Summer	7.54	220,770	315	5.17	60	1.0	0.7
1934	Winter	19.93	17,959,000	25,700	1.00	1	35.5	21.0
1935	Summer	7.78	25,895	37	3.30	30	0.1	0.08
1935	Winter	16.64	13,683,403	19,600	1.11	15	32.3	19.0

Water measurements recorded by weirs at lower extremity of watershed.

ESTIMATED WATER YIELD BY PRINCIPAL DRAINAGES

(The basis for these estimates is a correlation of stream-gaging and precipitation records, adjusted to elevations, vegetative association and other factors affecting run-off. The precipitation data were obtained from Weather records and state isohyetal compilations and the available stream-gaging records used for certain basic flow determinations were obtained from U.S.G.S. water supply papers.)

Santa Fe National Forest

Drainage Name	Gross Area of Basin In Sq. Miles (Santa Fe Forest)	Annual Water Yield - Acre Ft. Per Year	Per Sq. Mi.
Mora River*	132	42,000	317
Gallinas River	57	20,000	346
Tecolote Creek	46	8,000	179
El Rito Creek	30	3,500	118
Canyon Blanco	74	4,500	60
Cow Creek	121	26,500	220
Pecos River	306	108,000	353
Rio Galisteo	74	6,200	85
Santa Fe Creek	35	8,500	242
Pojoaque Creek	60	13,100	218
Santa Cruz & Truchas	117	36,000	308
Direct Tributaries from West Side**	209	17,600	84
Jemez River	223	40,400	181
Rio Puerco	102	12,100	119
Chama River	336	43,500	129
Gallina River	218	21,600	100
Largo Creek (San Juan)	18	800	44
Total Santa Fe Forest	2,158	412,300	190

* Includes Rociada Tract and unacquired Mora Grant lands to Forest Boundary.
** Excluding Ramon Vigil Grant.

Baca Location is not included in estimates.

ESTIMATED WATER YIELD BY PRINCIPAL DRAINAGES

Apache National Forest

Drainage Name	Gross Area of Basin In Sq. Miles (Apache Forest)	Annual Water Yield - Acre Ft. Per Year	Per Sq. Mi.
Mineral Creek	52	12,200	232
Canero Creek	37	8,300	224
Little Colorado (Direct)	81	33,700	414
So. Fork Little Colorado	55	14,300	260
Nutrioso Creek	148	17,300	117
Coyote Creek*	80	5,500	69
Agua Fria Creek*	127	6,400	51
Largo Creek*	127	13,700	108
(Sub-Total Little Colorado)	707	111,400	158
Mangas Creek*	61	8,100	133
Alamacito-Patterson*	74	8,400	114
T. H. Canyon - Cottonwood*	45	6,100	135
(Sub-Total Interior Plains)	180	22,600	126
Tularosa Creek	324	23,800	74
Apache Creek	137	10,900	79
Saliz-Brushy Creek	75	4,200	56
Pueblo Creek	84	5,800	69
Upper "Frisco" Direct	162	24,200	149
Centerfire - Karruth Creek	149	10,800	73
Lower "Frisco" direct	214	11,000	51
(Sub-Total San Francisco River)**	1,145	90,700	80
Campbell & Dry Blue	112	24,700	220
Blue River (Direct)	184	23,800	129
(Sub-Total Blue River)	296	48,500	164
North Fork Black River	49	21,800	445
East Fork Black River	63	25,500	405
Black River (Direct)	244	101,600	415
(Sub-Total Black River)	356	148,900	418
Total Apache Forest	2,684	422,100	157

* Principally flood waters and seasonal flow

** Exclusive of Negrito Creek above Apache-Gila boundary

Water yield data for other Forests of Region 3 not yet available.

Livestock Actually Grazed Under Permit On National Forests

ARIZONA

C.Y.	Cattle	Horses	Sheep	Goats	Swine	Exempt Livestock
1926	227,198	2,539	257,575	1,140	271	21,551
1927	207,517	2,631	337,786	1,796	268	21,097
1928	186,277	2,231	286,231	1,766	460	19,495
1929	181,125	1,951	351,221	1,397	455	18,631
1930	172,024	1,533	352,368	426	272	11,073
1931	178,900	1,427	331,329	3,345	196	10,778
1932	181,388	1,391	262,652	1,786	157	10,460
1933	185,711	1,312	361,013	0	115	10,824
1934	188,281	1,018	245,189	10	80	10,629
1935	181,363	912	252,117	0	55	10,398
1936	180,046	1,074	270,029	600	50	11,273
1937	182,421	1,014	242,182	600	42	11,261
1938	183,396	1,042	223,993	600	45	11,287
1939	171,778	1,198	199,086	800	45	10,087
1940	149,896	1,397	155,068	800	45	9,335
	C&H		S&G			C&H / S&G / Swine
*1941	158,377		142,444		30	8,827 / 10 / 10
*1942	157,500		143,948		45	8,504 / 10 / 9
*1943	158,640		135,560		45	8,550 / - / -
*1944	153,217		113,504		35	8,280 / 6 / 9

*C&H and S&G figures combined in annual grazing report.

Livestock Actually Grazed Under Permit on National Forests

NEW MEXICO

C.Y.	Cattle	Horses	Sheep	Goats	Swine	Exempt Livestock
1926	91,364	3,071	197,931	10,390	180	13,463
1927	89,909	3,350	220,916	11,696	145	11,190
1928	81,065	3,446	227,651	10,491	168	12,167
1929	81,044	3,381	244,509	10,427	134	11,024
1930	82,049	2,964	225,577	10,526	84	11,044
1931	86,197	2,651	217,044	9,592	102	10,374
1932	88,669	2,148	211,156	10,850	104	11,581
1933	91,747	1,704	191,617	10,225	60	11,488
1934	92,923	1,548	200,156	8,082	19	11,467
1935	89,174	1,755	179,410	8,639	15	7,641
1936	86,636	1,894	189,446	6,988	0	10,425
1937	86,776	1,841	164,709	6,638	0	10,473
1938	84,136	1,869	167,524	6,417	0	10,016
1939	89,120	2,028	168,230	4,969	0	11,766
1940	89,105	1,720	157,601	5,163	0	12,373
	C&H		S&G			C&H / S&G
*1941	86,381		168,529		0	9,344 / 1,474
*1942	87,519		164,952		51	8,631 / 1,369
*1943	87,608		150,695		209	9,388 / 1,168
*1944	89,941		144,060		-	8,838 / 1,186

*C&H and S&G figures combined in annual grazing reports.

Estimates of Game on National Forests

	Year	Fur-Bearing Animals								
		Bad-ger	Bea-ver	Fox	Mink	Musk-rat	Rac-coon	Ringtail Cat	Skunk	Weasel
Arizona	1936	4,075	940	21,450	55	*	6,535	5,775	44,800	2,360
	1937	4,110	930	20,550	70		6,840	6,110	43,200	2,210
	1938	3,640	960	20,370	50		6,950	6,730	42,500	2,090
	1939	3,000	931	20,400	20		6,200	7,200	41,700	2,200
	1940	3,300	957	21,300	300		7,300	8,600	35,500	2,200
	1941	3,200	950	21,600	300		7,500	8,600	34,600	2,700
	1942	3,200	1,117	19,860	60	1,500	8,300	7,800	35,600	2,700
	1943	3,100	1,195	20,630	55	2,340	7,720	*	40,460	1,235
	1944	3,085	804	19,165	28	1,298	7,055	900	38,750	1,487
New Mex.	1936	2,650	1,720	6,935	495	*	1,545	2,000	28,365	1,630
	1937	2,710	1,770	6,990			1,700	1,850	29,480	1,680
	1938	2,940	1,810	6,810	410		1,760	2,120	28,430	4,240
	1939	3,090	1,860	6,900	400		1,700	2,250	27,000	4,200
	1940	3,400	2,322	6,700	300		1,800	2,500	35,300	3,000
	1941	3,400	2,522	6,900	500		1,800	2,700	28,100	6,300
	1942	3,310	2,770	7,200	500	1,830	1,800	2,600	27,200	6,200
	1943	3,790	2,835	7,680	470	2,090	1,810	*	28,400	6,560
	1944	3,810	3,505	7,715	470	2,630	1,818	410	27,270	7,710
Total Region 3	1936	6,725	2,660	28,385	550		8,080	7,775	73,165	3,990
	1937	6,820	2,700	27,540	600		8,540	7,860	72,680	3,890
	1938	6,580	2,770	27,180	460		8,710	8,850	70,930	6,330
	1939	6,090	2,791	27,300	430		7,900	9,450	68,700	6,400
	1940	6,700	3,279	28,000	600		9,100	11,100	70,800	5,200
	1941	6,600	3,472	28,500	800		9,300	11,300	62,700	9,000
	1942	6,510	3,887	27,060	560	3,330	10,100	10,400	62,800	8,900
	1943	6,890	4,030	28,310	525	4,430	9,530	*	68,860	7,795
	1944	6,895	4,309	26,880	498	3,928	8,873	1,310	66,020	9,197

*Data not available

WILDLIFE AND RANGE MANAGEMENT

Estimates of Game on National Forests

Game Animals

	Year	Antelope	Bear: Black or Brown	Bear: Silver Tip or Grizzly	Deer	Elk	Mtn. Sheep	Peccary or Javelina	Squirrel	Turkey
Arizona	1936	5040	820	-	81,090	4605	175	5405	54,810	10,290
	1937	5490	840	-	73,980	4400	200	5810	57,900	10,620
	1938	5320	865	1	70,020	4140	210	6140	43,590	9,990
	1939	5100	860	1	67,780	4290	220	7100	25,400	8,990
	1940	5400	970	-	62,500	4340	215	*	*	8,370
	1941	5900	950	-	61,700	4300	210	7100	298,330	8,760
	1942	5500	1020	-	64,995	4100	200	8400	*	9,400
	1943	5235	960	-	61,995	4095	190	8700	*	*
	1944	5000	1021	-	61,107	3897	166	10355	*	11,570
New Mex.	1936	1040	1350	5	86,460	855	115	-	40,450	14,400
	1937	1180	1320	4	76,400	880	55	400	38,400	12,500
	1938	1460	1330	3	72,200	965	90	300	38,800	13,120
	1939	1550	1324	2	69,130	1040	70	400	36,500	12,350
	1940	1700	1430	2	69,300	1060	55	*	*	11,100
	1941	2100	1400	2	68,800	1200	60	400	340,500	10,810
	1942	2300	1342	-	68,100	1300	60	500	*	11,000
	1943	2395	1412	-	68,250	1497	90	500	*	*
	1944	2506	1493	-	67,270	1572	93	500	*	10,253
Total Region 3	1936	6080	2170	5	167,550	5460	290	5405	95,260	24,690
	1937	6670	2160	4	150,380	5280	255	6210	96,300	23,120
	1938	6780	2195	4	142,220	5105	300	6440	82,390	23,110
	1939	6650	2184	3	136,910	5330	290	7500	61,900	21,340
	1940	7100	2400	2	131,800	5400	270	*	*	19,470
	1941	8000	2350	2	130,500	5500	270	7500	638,830	19,570
	1942	7800	2362	-	133,095	5400	260	8900	*	20,400
	1943	7630	2372	-	130,245	5592	280	9200	*	*
	1944	7506	2514	-	128,377	5469	259	10855	*	21,823

*Data not available.

Estimates of Game On National Forests

	Year	Predatory Animals			
		Bobcat or Lynx	Coyotes	Mt. Lions	Wolf
Arizona	1936	12,860	20,850	513	10
	1937	12,340	20,560	490	12
	1938	11,560	21,530	500	25
	1939	10,090	17,875	460	22
	1940	10,000	21,900	480	13
	1941	11,580	23,500	490	15
	1942	10,870	28,500	455	21
	1943	10,940	28,090	475	8
	1944	11,060	27,350	463	16
New Mexico	1936	6,345	11,325	420	24
	1937	6,680	12,040	375	16
	1938	6,690	12,040	375	30
	1939	7,980	14,050	442	22
	1940	6,700	11,500	383	18
	1941	6,590	12,180	342	24
	1942	10,440	13,100	307	11
	1943	7,650	13,930	311	5
	1944	8,195	15,135	327	7

	Year	Game Animals Killed By Man					
		Antelope	Bear	Deer	Elk	Peccary	Squirrel	Wild Turkey
Arizona	1936	20	85	3,330	100	25	+55	755
	1937	-	107	3,195	66	10	455	660
	1938	-	44	3,045	81	*	215	600
	1939	6	74	2,750	82	*	260	512
	1940	3	97	2,943	91	*	200	510
	1941	294	71	3,240	152	*	170	715
	1942	165	56	3,340	279	120	*	510
	1943	336	71	3,507	445	130	*	*
	1944	1	81	3,887	-	207	*	431
New Mexico	1936	50	75	2,005	15	*	1,840	830
	1937	-	94	2,315	11	*	3,840	832
	1938	70	96	2,545	10	*	2,720	945
	1939	46	96	3,042	19	*	2,200	646
	1940	55	100	4,050	25	*	2,600	560
	1941	122	97	4,403	31	*	2,350	629
	1942	123	54	3,428	51	10	*	370
	1943	135	50	5,157	135	10	*	*
	1944	140	119	3,856	51	10	*	623
Total Region 3	1936	70	160	5,335	115	25	2,295	1,585
	1937	-	201	5,110	77	35	4,295	1,492
	1938	70	145	5,510	91	*	2,935	1,545
	1939	52	170	5,792	101	*	2,460	1,158
	1940	58	197	6,993	116	*	2,800	1,070
	1941	416	168	7,643	183	*	2,520	1,344
	1942	288	110	6,768	330	130	*	880
	1943	471	121	8,664	580	140	*	*
	1944	141	200	7,743	51	217	*	1,054

*Data not available

Total Area Available For Livestock
(Includes National Forest Range)

	Arizona	New Mexico	TOTAL
Total Land Area	72,838,400	78,401,920	151,240,320
Barren and Unaccessible	8,396,803	1,266,940	9,663,743
Other Non-grazable	1,853,855	3,059,800	4,913,655
Total Non-grazable	10,250,658	4,326,740	14,577,398
Total Gross Grazable	62,587,742	74,075,180	136,662,922
Closed to Grazing	782,169	270,658	1,052,827
Total Net Area Available for Livestock - Acres	61,805,573	73,804,522	135,610,095
Percent	84.9	94.1	89.5

GOVERNMENT OWNED WILDLIFE AND RANGE USE IMPROVEMENTS - JUNE 30, 1944

ARIZONA

Forest	Range Use Improvements: Fences & Corrals Miles	Stock Driveways Miles	Water Development Number	Artificial Reseeding Acres	Cost	Wildlife Use Improvements: Game Refuge Fences Miles	Fish Rearing Ponds Number	Stream & Lake Imp. Number	Cost
Apache	543.9	45.0	73	-	$ 182,566.68	3.5	5	16	$ 59,991.26
Coconino	1,086.0	-	326	-	460,764.69	-	-	7	40,080.61
Coronado	1,265.6	-	557	-	595,976.85	-	-	1	15,328.27
Crook	1,051.2	-	343	2,300	490,093.09	-	-	8	18,040.63
Kaibab	531.3	5.5	177	-	317,461.93	-	-	1	3,670.28
Prescott	913.1	7.5	279	-	504,642.39	4.3	-	-	3,843.54
Sitgreaves	402.5	-	68	-	152,416.93	-	10	1	4,717.31
Tonto	907.4	118.3	344	10	329,683.09	-	-	5	17,504.26
Total Forests	6,701.0	176.3	2,167	2,310	3,033,605.65	7.8	15	39	163,176.16
Swn. Forest & Range Exp. Sta.	121.0	-	54	-	84,073.92	-	-	-	-
GRAND TOTAL ARIZONA	6,822.0	176.3	2,221	2,310	3,117,679.57	7.8	15	39	163,176.16

NEW MEXICO

Apache	574.7	-	113	-	207,860.73	-	-	-	-
Carson	445.6	-	95	-	191,520.64	-	-	12	25,192.84
Cibola	1,378.6	-	186	-	481,413.55	-	-	3	11,627.52
Coronado	70.5	-	41	-	28,398.15	-	-	-	-
Gila	1,381.5	-	203	261	594,157.25	2.5	-	12	14,207.64
Lincoln	948.7	-	221	45	545,188.96	-	-	-	7,591.16
Santa Fe	587.9	44.0	24	-	191,361.24	-	-	31	24,071.43
Total Forests	5,387.5	44.0	883	306	2,239,900.52	2.5	-	58	82,690.59
Swn. Forest & Range Exp. Sta.	132.0	-	7	-	57,794.40	-	-	-	-
GRAND TOTAL, N. M.	5,519.5	44.0	890	306	2,297,694.92	2.5	-	58	82,690.59
TOTAL FORESTS	12,088.5	220.3	3,050	2,616	5,273,506.17	10.3	15	97	245,866.75
TOTAL SOUTHWESTERN	253.0	-	61	-	141,868.32	-	-	-	-
GRAND TOTAL - R-3	12,341.5	220.3	3,111	2,616	$ 5,415,374.49	10.3	15	97	245,866.75

Distribution of Lands in Arizona	Area Acres	% To Total Area of State
Federal		
Indian Reservations	19,224,717	26.40
Grazing Districts and Public Domain	9,011,697	12.37
National Parks and National Monuments	2,394,568	3.29
Soil Conservation Service	10,454	.01
Santa Rita Experimental Range	52,604	.07
Southwestern Forest & Range Experiment Station	245	-
National Forests (net)*	11,421,225	15.68
Other Federal Lands	5,823,950	8.00
Total Federally Owned or Managed	47,939,460	65.82
State		
Total State Owned	8,356,497	11.47
Private		
Private in farms and ranches	13,964,572	19.17
Private - other	2,577,927	3.54
Total Privately Owned	16,542,499	
Total Area of State	72,838,456	100.00

Distribution of Lands in New Mexico		
Federal		
Indian Reservations	7,153,109	9.11
Grazing Districts and Public Domain	14,612,786	18.62
National Parks and National Monuments	163,434	.21
Jornada Experimental Range	189,940	.24
National Forests (net)*	8,657,704	11.03
Soil Conservation Service	566,177	.72
Other Federal Lands	1,371,725	1.75
Total Federally Owned or Managed	32,714,875	41.68
State		
Total State Owned	12,700,968	16.18
Private		
Private in Farms and Ranches	29,592,372	37.71
Private - other	3,477,882	4.43
Total Privately Owned	33,070,254	
Total Area of State	78,486,097	100.00
Total Area of Region 3	151,324,553	

*Latest available figures

The net forest area in Arizona and New Mexico totals:	20,078,929
The gross forest area in Arizona	12,105,614
The gross forest area in New Mexico	9,892,426
TOTAL	21,998,040

Region 3

STATEMENT OF AREAS UNDER FOREST SERVICE ADMINISTRATION BY COUNTIES

As of June 30, 1944

State and County	National Forest or Experimental Area	Total Area of County Involving N.F. Lands (1940 Census)	Area of County Within N.F. Boundary	Area not under F.S. Administration	Acreage under F.S. Administration	Percent of County Area under F.S. Administration
ARIZONA						
Apache	Apache-Sitgreaves	7,151,360	515,994	29,163	486,831	6.81
Cochise	Coronado-Crook	4,003,840	529,015	24,554	504,461	12.60
Coconino	Coconino-Kaibab-Prescott-Sitgreaves	11,886,720	3,584,182	201,192	3,382,990	28.46
Gila	Crook-Tonto	3,040,000	1,724,874	48,761	1,676,113	55.13
Graham	Crook	2,950,400	399,338	2,063	397,275	13.47
Greenlee	Apache-Crook	1,199,360	758,793	9,864	748,929	62.44
Maricopa	Crook-Tonto	5,907,840	696,073	4,272	691,801	11.71
Mohave	Kaibab	8,486,400	28,219	160	28,059	.33
Navajo	Sitgreaves	6,343,040	544,728	73,417	471,311	7.43
Pima	Coronado-Santa Rita Exp. For.-S.W. Exp. For.	5,914,240	448,873	11,026	437,847	7.40
Pinal	Coronado-Crook-Tonto	3,441,920	228,805	5,476	223,329	6.49
Santa Cruz	Coronado	797,440	448,497	23,132	425,365	53.34
Yavapai	Coconino-Kaibab-Prescott Tonto	5,178,240	2,251,627	251,920	1,999,707	38.62
STATE TOTAL		66,300,800	12,159,018	685,000	11,474,018	

Region 3

STATEMENT OF AREAS UNDER FOREST SERVICE ADMINISTRATION BY COUNTIES

As of June 30, 1944

State and County	National Forest or Experimental Area	Total Area of County Involving N.F. Lands (1940 Census)	Area of County Within N.F. Boundary	Area not under F.S. Administration	Acreage Under F.S. Administration	Percent of County Area under F.S. Administration
NEW MEXICO						
Bernalillo	Cibola	744,320	89,925	8,825	81,100	10.89
Catron	Apache-Cibola-Gila	4,414,720	2,407,930	173,176	2,234,754	50.62
Chavez	Lincoln	3,900,160	41,497	1,359	40,138	1.03
Colfax	Carson	2,409,600	7,680	1,387	6,293	.26
Dona Ana	Jornada Exp. R.	2,434,560	193,482	3,542	189,940	7.80
Eddy	Lincoln	2,664,320	139,172	4,433	134,739	5.06
Grant	Gila-Ft.Bayard Res.	2,540,800	916,012	22,124	893,888	35.18
Hidalgo	Coronado-Gila	2,206,080	136,031	3,390	132,641	6.01
Lincoln	Lincoln	3,109,760	507,575	66,762	440,813	14.17
McKinley	Cibola	3,491,840	262,129	147,453	114,676	3.28
Mora	Carson-Santa Fe	1,242,880	121,891	30,206	91,685	7.38
Otero	Lincoln	4,248,320	660,009	192,192	467,817	11.01
Rio Arriba	Carson-Santa Fe Taos L.U. Project	3,747,200	1,259,896	63,638	1,196,258	31.92
Sandoval	Cibola-Santa Fe-Ramon Vigil Proj. Ojo de San Jose Proj.	2,439,040	365,995	32,800	333,195	13.66
San Miguel	Santa Fe	3,039,360	341,545	47,708	293,837	9.67
Santa Fe	Santa Fe-Ramon Vigil Proj.- Gabaldon Proj.	1,243,520	217,839	21,317	196,522	15.80
Sierra	Cibola-Gila	1,941,760	391,557	11,255	380,302	19.58
Socorro	Cibola-Lincoln	4,974,080	1,032,854	122,333	910,521	18.30
Taos	Carson-Santa Fe-Taos Proj.	1,443,840	470,018	77,817	392,201	27.16
Torrance	Cibola-Lincoln	2,137,600	297,988	35,985	262,003	12.26
Valencia	Cibola	3,607,680	390,979	301,913	89,066	2.47
STATE TOTAL		57,981,440	10,252,004	1,369,615	8,882,389	

Special Uses - Fiscal Year - 1941

In Force 6/30/41*

	Free	Charge	Total
Arizona	3,763	1,435	5,198
New Mexico	1,668	770	2,438
Region 3	5,431	2,205	7,636

Land Exchange
Total Number consummated Cases to June 30, 1944, Inc.

Offered Lands - Total Consummated		Area Accepted	Estimated Value
Arizona	73	232,755	$ 538,609
New Mexico	67	274,889	749,570
Total	140	507,644	$ 1,288,179

Selected Lands - Total Consummated

State	Area	Land Value	Timber M. Ft. B.M.	Timber Value
Arizona	28,243	$ 72,858	158,510	$ 381,513
New Mexico	10,060	19,278	253,280	574,580
Region Total	38,303	$ 92,136	411,790	$ 956,093

NATIONAL FOREST AREAS

Fiscal Year 1944

Arizona	Net Area	New Mexico	Net Area
Apache	679,432	Apache	889,698
Coconino	1,744,296	Carson	1,107,885
Coronado	1,317,118	Cibola	1,707,153
Crook	1,422,686	Coronado	124,988
Kaibab	1,778,887	Gila	2,395,794
Prescott	1,265,410	Lincoln	1,178,467
Sitgreaves	802,846	Santa Fe	1,253,719
Tonto	2,410,550		
Total Arizona	11,421,225	Total N.M.	8,657,704

Net area of the 158 National Forests in the U.S. 177,987,297 Acres (F.Y. 1944)

*No report submitted for 1944

IMPROVED PUBLIC RECREATION AREAS ON NATIONAL FORESTS IN REGION 3

*Indicates both picnic grounds and forest camps.

ARIZONA

APACHE

Picnic Grounds (3)

South Fork*
Elderberry
Alpine

Forest Camps (22)

South Fork*
Benny Creek
Greer
East Fork
Sheep Crossing
Big Lake
West Fork
Colonel
Warren
P. S.
Diamond Rock
Aspen
Hall
Beaver Dam
Buffalo Crossing
Hannagan
K. P. Cienega
Grant Creek
Lower Blue
Middle Blue
Blue Crossing
Upper Blue

Vistas (1)

Blue

COCONINO

Picnic Grounds (3)

Lake Mary*
Fulton Spring
Schnebly Hill

Forest Camps (11)

Townsend
Kit Carson
Lake Mary*

COCONINO (Continued)

Forest Camps

Dairy Springs
Double Springs
"R. H."
Kehl Spring
Pine Flat
Sliderock
Banjo Bill
Manzanita

Winter Sports Areas (1)

Arizona Snow Bowl

Vistas (4)

Oak Creek
Schnebly Hill
Bakers Butte
Mogollon Rim

CORONADO

Picnic Grounds (6)

Sabino Canyon
Bog Springs
Roundup
Cochise
John Hands
Sunny Flat

Forest Camps (21)

Bear Wallow
Soldier Camp
Middle Sabino
Marshall Gulch
Madera Canyon
Big Rock
Calabasas
Pena Blanca
Rucker
Bathtub
Cypress
Hermitage
Morse
Sycamore
Turkey Creek
Pinery
Rustler Park
Herb Martyr
South Fork
Stewart
Idlewild

Winter Sports Areas (1)

Rustler Park

ARIZONA (Cont'd)

CROOK

Picnic Grounds (9)

Marijilda
Noon Creek
Wet Canyon
Turkey Flat
Pioneer Pass
Kellner Canyon
Pinal Mountain
Warnica Springs
Oak Flat

Forest Camps (12)

Stray Horse
Engineer Spring
Upper Juan Miller
Lower Juan Miller
Honeymoon
Granville
Stockton Pass
Arcadia
Shannon
Hospital Flat
Soldier Creek
Jones Water

KAIBAB

Picnic Grounds (5)

Garland Prairie
White Horse
Sycamore
Lava Cave
The Rocks

Forest Camps (6)

Parks
Spitz Spring
Old Bill Williams
J. D. Dam
Jacob Lake
V. T.

Vistas (4)

Garland Prairie
Sycamore
House Rock
Kanab

KAIBAB (Continued)

Winter Sports Areas (1)

Williams East

PRESCOTT

Picnic Grounds (5)

Granite Basin*
Thumb Butte
The Playgrounds
Potato Patch
Turney Gulch

Forest Camps (8)

Granite Basin*
Granite Creek
Indian Creek
Wolf Creek
Mingus Mountain
Powell Springs
Hazelett Hollow
Kentuck Spring

Vistas (2)

Granite Basin
Caldwell Canyon

Winter Sports Areas (2)

Mingus Mountain
Indian Creek

SITGREAVES

Picnic Grounds (1)

Promontory

Forest Camps (3)

Chevalon
Lakeside
Pinetop

Vistas (1)

Promontory Tower

Winter Sports Areas (1)

Springer Mountain

ARIZONA (Cont'd.)

TONTO

Picnic Grounds (6)

Cave Creek
Seven Springs
Camp Creek
Coon Bluff
Blue Point*
Canyon Lake

Forest Camps (8)

Broncho Canyon
Blue Point*
Apache Lake
Pine
Sycamore
Horton-Tonto Creek
Reynolds Creek
Rose Creek

Total Developed Areas

ARIZONA

Picnic Grounds	38
Forest Camps	91
Winter Sports	6
Vistas	12
	147

NEW MEXICO

APACHE

Picnic Grounds (1)

Pueblo Park

Forest Camps (1)

Cottonwood Canyon

Vistas (1)

Chimney Rock

CARSON

Picnic Grounds (3)

The Cave
El Rito*
Echo Cave

Forest Camps (22)

El Nogal
La Viniteria
Las Petaca
Capulin
La Sombra
Comales
Agua Piedra

NEW MEXICO (Cont'd.)

CARSON (Cont'd.)

Forest Camps

La Junta
Angostura
Santa Barbara
Hondo Canyon
Cabresto Lake
Eagle Rock
Columbine
Goat Hill
La Bobita
Elephant Rock
June Bug
Lagunitas
La Jara
El Rito*
Canjilon

Winter Sports Areas (3)

Agua Piedra
Red River
El Rito

CIBOLA

Picnic Grounds (24)

Juan Tabo
La Cueva
Cole Spring
Cienega Canyon
Sulphur Canyon
Doc Long
Tree Spring
Dry Camp
Balsam Glade
Capulin
Sandia Crest
Kiwanis Point
Las Huertas Creek
Pine Flat
Cedro Peak
Tajique
New Canyon
Canyon Colorado*
Mountainair Ranger Station
Springtime*
Luna Park
Water Canyon*
McGaffey
Whitewater

CIBOLA (Continued)

Forest Camps (10)

Fourth of July Spring
Capillo Peak
Canyon Colorado*
Springtime*
Water Canyon*
Bear Trap
Hughes Mill
Lobo
Quaking Aspen
Turkey Spring

Winter Sports Areas (2)

Sandia Mountain
McGaffey

Vistas (3)

Sandia Crest
Kiwanis Point
Capillo Peak

GILA

Picnic Grounds (5)

Little Walnut
Cherry Creek
McMillen
Pine Flat
Bursum

Forest Camps (12)

Goforth
Iron Creek
Wrights Cabin
Rocky Canyon
Black Canyon
Gilita
Willow Creek
Ben Lilly
Upper Whitewater
Whitewater
Little Dry
Big Dry

Vistas (2)

Emory Pass
Negrito Tower

LINCOLN

Picnic Grounds (3)

Sitting Bull Falls
Cedar Creek
Red Cloud

Winter Sports Areas (1)

Cedar Creek

Forest Camps (5)

James Canyon
Karr Canyon
Cherokee Bill
School House
Pine

SANTA FE

Picnic Grounds (7)

Paliza*
Banco Bonito
Spence Spring
Little Tesuque
Dalton
E. V. Long
Brides*

Forest Camps (21)

Battleship Rock
Jemez River
La Cueva
Calaveras
Rio Las Vacas
East Fork
Jemez Falls
Las Conchas
Paliza*
Black Canyon
Fields Tract
Holy Ghost
Winsor Creek
Panchuela
Oak Flat
Brides*

SANTA FE (Continued)

Forest Camps

Fishing Hole
The Pine
Three Falls
Puerco
Mud Springs

Winter Sports Areas (1)

Big Tesuque

JORNADA RANGE RESERVE

Picnic Grounds (1)

Rope Springs

TOTAL DEVELOPED AREAS

NEW MEXICO

Picnic Grounds	44
Forest Camps	71
Winter Sports	8
Vistas	6
	129

TOTAL DEVELOPED AREAS

REGION 3

Picnic Grounds	82
Forest Camps	162
Winter Sports	13
Vistas	18
	275

RECREATION VISITORS - 1944

(Estimates cover government owned lands only)

Recreation Areas	Arizona	New Mexico	Region 3
Campgrounds	43,134	25,337	68,471
Picnic Areas	109,315	81,732	191,047
Winter Sports Areas	1,485	6,975	8,460
Organization Camps	7,180	5,165	12,345
Hotels and Resorts	47,871	1,935	49,806
Recreation Residences	6,672	2,510	9,182
Wilderness Areas	958	4,032	4,990
Other Forest Areas	84,045	82,926	166,971
Highways and Roads	290,750	92,860	383,610
Totals	591,410	303,472	894,882

WILDERNESS AREAS

Arizona

Forest	Name of Area	Acreage: National Forest	Acreage: Other	Logging	Grazing	Final Approval
Apache (Crook)	Blue Range	216,737	1,427	Deferred	To Capacity	8-20-36
Tonto	Mazatzal	205,000	346	Limited	Conservative	6-13-40
Tonto(Crook)	Superstition	131,754	66	Limited	Conservative	4-17-40

New Mexico

Gila	Black Range	168,424	1,560	Discouraged	Conservative	8-20-36
Gila	Gila	562,609	4,445	Inaccessible	Continued	4-4-38*
Santa Fe	Pecos Division	136,640	1,360	Discouraged	To continue	8-22-36

*Amended 11/25/44

WILD AREAS

Arizona

Apache	Mt. Baldy	7,400		Inaccessible	Continued	8-20-36
Coconino	Sycamore Canyon	46,122	1,108	None	Continued	8-20-36
Kaibab and Prescott						
Coronado	Chiricahua	18,000		Discouraged	Conservative	9-18-40
Crook	Galiuro	55,000		Discouraged	Reserve Range	6-19-40
Prescott (Tonto)	Pine Mountain	17,424	76	None	To Decrease	8-22-36
Tonto	Sierra Ancha	29,834	66	Discouraged	Conservative	2-28-33**

**Amended 4/6/38

New Mexico

Lincoln	White Mountain	22,800	1,200	Discouraged	Conservative	8-20-36
Santa Fe	San Pedro Parks	41,132		Not contemplated	Continued	9-16-40

EXPERIMENTAL FORESTS

Arizona

Forest	Name of Area	Acreage: National Forest	Acreage: Other	Logging	Grazing	Final Approval
Coconino Kaibab	Fort Valley	4,770		Limited	None	1-28-36
Coconino	Long Valley	2,536	15	Limited	Capacity	3-31-36
Crook	Mt. Graham	3,040		Limited	Continued *	3-23-32
Tonto	Sierra Ancha	13,255		None	Continued	4-6-38

New Mexico

Lincoln	Cloudcroft	2,120		Limited	None	11-30-35

NATURAL AREAS

Arizona

Coconino	Oak Creek Canyon	940		None	None	10-15-31
Coconino	San Francisco Peaks	880		None	Conservative	10-15-31
Coronado	Butterfly Peak	1,000		None	"	7-25-35
Coronado	Chiminea Canyon	160		None	"	2-26-31
Coronado	Pole Bridge Canyon	320		None	Continued	2-26-31
Coronado	Santa Catalina	4,464		None	None	3-23-27

New Mexico

Santa Fe	Monument Canyon	640		None	None	10-1-32

RESEARCH AREA

New Mexico

Santa Fe	Univ. of New Mexico	10,000		Regular		5-29-30

*Parker Creek Area Closed

ENGINEERING
ROADS AND TRAILS
To end of Fiscal Year, June 30, 1944

During Fiscal Year 1944 — ARIZONA

Type of Road	Construction Miles	Construction Cost	Maintenance Miles	Maintenance Cost	TOTAL
Forest Highways	1	$ 99,476	236	$ 17,042	$ 116,518
Forest Development Roads	*8	56,077	3,567	114,622	170,699
Trails	4	696	1,195	19,479	20,175
TOTAL		156,249		151,143	307,392

*Access -- Strategic materials

To June 30, 1944

Forest Highways	675	10,481,647		418,191	10,899,838
Forest Development Roads	3,569	8,909,511		1,739,013	10,648,524
Trails	3,207	576,252		374,918	951,170
TOTAL		19,967,410		2,532,122	22,499,532

During Fiscal Year 1944 — NEW MEXICO

Forest Highways	0	33,022	3	610	33,632
Forest Development Roads	*31	177,817	3,284	140,891	318,708
Trails	0	0	1,659	12,845	12,845
TOTAL		210,839		154,346	365,185

*Access - Strategic materials

To June 30, 1944

Forest Highways	330	6,699,246		508,358	7,207,604
Forest Development Roads	2,421	6,901,810		1,912,457	8,814,267
Trails	1,961	252,193		271,853	524,046
TOTAL		13,853,249		2,692,668	16,545,917

During Fiscal Year 1944 — REGION

Forest Highways	1	132,498	239	17,652	150,150
Forest Development Roads	*39	233,894	6,851	255,513	489,407
Trails	4	696	2,854	32,324	33,020
TOTAL		367,088		305,489	672,577

*Access - Strategic Materials

To June 30, 1944

Forest Highways	1,005	17,180,893		926,549	18,107,442
Forest Development Roads	5,990	15,811,321		3,651,470	19,462,791
Trails	5,168	828,445		646,771	1,475,216
TOTAL		33,820,659		5,224,790	39,045,449

NET RECEIPTS FOR THE FISCAL YEAR, 1944

State	TIMBER			Grazing	Land Use	Power	TOTAL
	Timber Sales	Forest Products	Timber Tres-pass				
Ariz.	$273,228.81	$1,597.38	-	$349,696.85	$17,490.55	$8,217.56	$ 650,231.15
N.Mex.	164,160.11	1,072.97	-	195,985.20	8,709.97	124.97	370,053.22
R-3	$437,388.92	$2,670.35	-	$545,682.05	$26,200.52	$8,342.53	1,020,284.37

Due School Fund (Enabling Act June 20, 1910)

Arizona	$ 38,061.15
New Mexico	415.20

	Arizona	New Mexico
Net Amounts on which 25% and 10% are computed	$ 612,167.72	$ 369,640.28
Due States: 25%	153,041.93	92,410.07
Due Road and Trail Fund: 10%	61,216.77	36,964.03
TOTAL	$ 214,258.70	$ 129,374.10

Value of timber delivered in exchange for land under the Act of March 20, 1922, less value previously delivered in cases rejected during the year: $18,729.00.

Region 3 | PAYMENTS TO STATES from NATIONAL FOREST RECEIPTS - JUNE 30, 1944 | 1945

ARIZONA

Forest	County	Net Forest Area-Acres	Act June 20, 1910 (School Sections)	Act May 23, 1908 (25% Fund)
Apache	Apache	442,621		$ 7,528.94
	Greenlee	236,811		4,028.14
	Total	679,432	$ 2,874.22	11,557.08
Coconino	Coconino	1,317,926		29,865.48
	Yavapai	426,370		9,661.94
	Total	1,744,296	9,830.37	39,527.42
Coronado	Cochise	482,061		6,556.75
	Pima	384,998		5,236.53
	Pinal	24,694		335.87
	Santa Cruz	425,365		5,785.59
	Total	1,317,118	4,455.35	17,914.74
Crook	Cochise	22,400		238.47
	Gila	340,420		3,624.10
	Graham	397,275		4,229.38
	Greenlee	512,118		5,452.00
	Maricopa	10,866		115.68
	Pinal	139,607		1,486.26
	Total	1,422,686	3,766.74	15,145.89
Kaibab	Coconino	1,734,595		7,584.65
	Mohave	28,059		122.69
	Yavapai	16,233		70.98
	Total	1,778,887	1,934.45	7,778.32
Prescott	Coconino	43,252		342.70
	Yavapai	1,222,158		9,683.33
	Total	1,265,410	2,493.45	10,026.03
Sitgreaves	Apache	44,210		1,425.08
	Coconino	287,325		9,261.72
	Navajo	471,311		15,192.38
	Total	802,846	6,436.09	25,879.18
Tonto	Gila	1,335,693		13,970.74
	Maricopa	680,935		7,122.27
	Pinal	59,028		617.41
	Yavapai	334,894		3,502.85
	Total	2,410,550	6,270.48	25,213.27
Total for Arizona		11,421,225	$38,061.15	$ 153,041.93

Distribution by Counties of the 25% Fund (Last Column)

Apache	$ 8,954.02	Greenlee	$ 9,480.14	Pinal	2,439.54
Cochise	6,795.22	Maricopa	7,237.95	Santa Cruz	5,785.59
Coconino	47,054.55	Mohave	122.69	Yavapai	22,919.10
Gila	17,594.84	Navajo	15,192.38	Total	$153,041.93
Graham	4,229.38	Pima	5,236.53		

Region 3 | PAYMENTS TO STATES | 1945

from

NATIONAL FOREST RECEIPTS — JUNE 30, 1944

NEW MEXICO

Forest	County	Net Forest Area-Acres	Act June 20, 1910 (School Sections)	Act May 23, 1908 (25% Fund)
Apache	Catron	889,698	72.14	16,056.59
Carson	Colfax	6,293		37.07
	Mora	2,496		14.70
	Rio Arriba	777,290		4,578.83
	Taos	321,806		1,895.68
	Total	1,107,885	29.32	6,526.28
Cibola	Bernalillo	81,100		738.81
	Catron	203,511		1,853.96
	McKinley	150,318		1,369.38
	Sandoval	45,263		412.34
	Sierra	20,766		189.17
	Socorro	908,655		8,277.72
	Torrance	171,405		1,561.47
	Valencia	126,135		1,149.07
	Total	1,707,153	69.88	15,551.92
Coronado	Hidalgo	124,988	8.10	1,803.71
Gila	Catron	1,141,545		8,342.00
	Grant	887,060		6,482.32
	Hidalgo	7,653		55.92
	Sierra	359,536		2,627.37
	Total	2,395,794	78.66	17,507.61
Lincoln	Chavez	40,138		411.14
	Eddy	134,739		1,380.16
	Lincoln	440,762		4,514.81
	Otero	470,364		4,818.03
	Socorro	1,866		19.11
	Torrance	90,598		928.03
	Total	1,178,467	54.24	12,071.28
Santa Fe	Mora	89,189		1,628.57
	Rio Arriba	412,392		7,530.20
	Sandoval	274,878		5,019.22
	San Miguel	295,724		5,399.87
	Santa Fe	179,615		3,279.74
	Taos	1,921		35.08
	Total	1,253,719	102.86	22,892.68
Total for New Mexico		8,657,704	$ 415.20	$ 92,410.07

Distribution by Counties of the 25% Fund (Last Column)

Bernalillo	$ 738.81	Lincoln	$ 4,514.81	Santa Fe	$ 3,279.74
Catron	26,252.55	McKinley	1,369.38	Sierra	2,816.54
Chavez	411.14	Mora	1,643.27	Socorro	8,296.83
Colfax	37.07	Otero	4,818.03	Taos	1,930.76
Eddy	1,380.16	Rio Arriba	12,109.03	Torrance	2,489.50
Grant	6,482.32	Sandoval	5,431.56	Valencia	1,149.07
Hidalgo	1,859.63	San Miguel	5,399.87	Total	$ 92,410.07

LIST OF FORESTRY SCHOOLS IN THE UNITED STATES
With Courses Leading To A Degree In Forestry
Approved by Society of American Foresters

University of California, Berkeley, Calif.
Colorado State College, Fort Collins, Colo.
University of Connecticut, Storrs, Conn.
Duke University, Durham, North Carolina
University of Florida, Gainesville, Fla.
University of Georgia, Athens, Georgia
Harvard University, Petersham, Mass.
University of Idaho, Moscow, Idaho
University of Idaho, Southern Branch, Pocatello, Idaho
Iowa State College of Agriculture and Mechanic Arts, Ames, Iowa
Louisiana State University, Baton Rouge, La.
University of Maine, Orono, Maine
Michigan State College of Agriculture and Applied Science, East Lansing, Michigan.
University of Michigan, Ann Arbor, Mich.
University of Minnesota, Saint Paul, Minn.
Montana State University, Missoula, Mont.
University of New Hampshire, Durham, N.H.
New York State College of Forestry at Syracuse University, Syracuse, N.Y.
New York State Ranger School, Wanakena, N.Y.
North Carolina State College of Agriculture and Engineering, Raleigh, N.C.
Oregon State Agricultural College, Corvallis, Oregon
Pennsylvania State College, State College, Penn.
Purdue University, Lafayette, Ind.
Utah State Agricultural College, Logan, Utah
State College of Washington, Pullman, Wash.
University of Washington, Seattle, Wash.
West Virginia University, Morgantown, W. Va.
Yale University, New Haven, Conn.

HISTORY OF FORESTRY DEVELOPMENT IN THE UNITED STATES

1631 First sawmill at Berwick, Maine

1640 First Ordinance governing timber use (Exeter, N. H.)

1822 DeWitt Clinton, Governor of New York, pleaded for practice of conservation

1828 Live oak and cedar reservations for Navy made in Louisiana. (19,000 acres)

1831 Timber cutting on public lands prohibited.

1849 Report of Patent Office urges conservation.

1867 Wisconsin appointed committee to report on effect of forest destruction.

1870 Census. Forest area canvassed.

1872 Governor Morton of Nebraska established Arbor Day.

1873 Forestry Committee of American Association for the Advacement of Science presented memorials to Congress, asking for the appointment of a commission of forestry.

Timber culture act.

1876 Congress established an "agency" on forestry in the Department of Agriculture. Dr. Franklin B. Hough appointed Commissioner of Forestry.

1877 Congress granted its first appropriation of $6,000 for the purpose of obtaining information preparatory to establishing a Division of Forestry

1882 American Forestry Association started April 25 at Cincinnati.

1884 The duty of making experiments with timber was added to work of Division of Forestry

1886 Division of Forestry in Department of Agriculture created.

1891 By Act of Congress, the President was given power to establish forest reservations.

President Harrison established the Yellowstone Park Timber Land Reserve to be under control of the Land Office.

1892 Pecos River Forest Reserve established in New Mexico.

1893 Grand Canyon Forest Reserve established in Arizona.

1896 Secretary of Interior requested the National Academy of Science to investigate and recommend a National Forest policy.

1897 By the Act of June 4, the forest reserves were put under administration and from this Act, with subsequent amendments, the forests are now being administered. The Land Office had charge of administration. The Division of Forestry gave technical advice. The U. S. Geological Survey was charged with surveying and mapping the forests.

1898 The Division of Forestry employed a total of six clerks and five scientific employees.

The first field work was done, which consisted of special investigation in connection with lumbering.

1901 The Division of Forestry was raised to the rank of Bureau but the change was in name only.

1905 By the Act of February 1, forestry work was consolidated and the forest reserves were transferred to the Department of Agriculture and the work of the Service as we know it today, started. In July 1905, the Bureau of Forestry became the Forest Service.

1907 The "forest reserves" were changed to National Forests in name to correct the impression that they were withdrawn from use.

1908 The direct administration of field work was transferred from Washington, D. C., to six district headquarters in the West; in 1914 a seventh district was established for the Appalachian region; in 1921 an eighth district was established in Alaska, and in 1929, a ninth district was set up for the Lake States.

1909 Between 1901 and 1909, President Roosevelt set aside over 148,000,000 acres of National Forests.

1911 By Act of March 1 (Weeks Law), acquisition of forest lands on headwaters of navigable streams east of Mississippi River made possible.

1922 General Forest Exchange Act authorizing exchange of lands in National Forests, cutting of timber in exchange for land, reservation of timber, etc., amended and extended 1923, 1926, 1928, 1929, 1935.

1924 The Reforestation Act (Clarke-McNary) was passed on June 7, greatly extending the scope of government cooperation in forestry.

1928 McNary-Woodruff Act was passed, authorizing appropriations of $2,000,000 for 1929 and $3,000,000 each for 1930 and 1931 for purchase of forest lands.

Forest Research Act (McNary-McSweeney) was passed, providing for a national forest research program on the part of seven governmental bureaus.

1930 Forest Service Districts became "Regions."

Secretary of Agriculture authorized to enlarge tree planting operations on National Forests

Secretary of Agriculture authorized in cases of emergency to incur expense in search of persons lost in National Forests and in transporting persons seriously ill, injured or who may die within National Forests to nearest place where may be transferred to interested relatives or local authorities.

1935 Secretary of Agriculture authorized to cooperate with States in acquisition and administration of State Forests (Fulmer Act).

1936 Secretary of Agriculture authorized to maintain forest experiment stations throughout the United States.

1937 Secretary of Agriculture authorized to cooperate in development of farm forestry in States and Territories. (Norris-Doxey Act).

1938 Senate Concurrent Resolution No. 31 adopted June 13, 1938, creates a Joint Congressional Committee to study the forest situation in the United States.

1939 House Concurrent Resolution No. 11, March 31, 1939 continuing the Joint Committee on Forestry.

1941 Joint Congressional Committee makes its report to Congress on March 24.